

DERWENT-ACC-NO: 2002-594130

DERWENT-WEEK: 200264

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TITLE: Ink composition activated by ultraviolet rays
useful for prints with security functions, contains
specified europium complex

PATENT-ASSIGNEE: ORIENT KAGAKU KOGYO KK[ORIEN]

PRIORITY-DATA: 2000JP-0372782 (December 7, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES MAIN-IPC		
JP 2002173622 A 011	June 21, 2002 C09D 011/00	N/A

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
JP2002173622A December 7, 2000	N/A	2000JP-0372782

INT-CL (IPC): B41M005/00, C09D011/00, C09K011/06

ABSTRACTED-PUB-NO: JP2002173622A

BASIC-ABSTRACT:

NOVELTY - An ink composition activated by ultraviolet rays contains specified europium complex (I).

DETAILED DESCRIPTION - An ink composition activated by ultraviolet rays contains europium complex of formula (I).

A = optically substituted 2-naphthyl selected from alkyl, alkoxy and halogen;
and

R = 1-3C fluorine-contained alkyl or methyl.

INDEPENDENT CLAIMS are also included for:

- (1) ink compositions containing compounds of formula (II);
- (2) ink compositions containing compounds of formula (III); and
- (3) ink compositions containing compounds of formula (IV).

A, R = same as in formula (I); and

R1, R2, R3 and R4 = H, alkyl or aryl.

USE - Used for prints with security functions such as office documents, markings for various kinds of cases or bar codes.

ADVANTAGE - The composition is substantially invisible under visible light but shows sufficient radiating strength under ultraviolet rays.

CHOSEN-DRAWING: Dwg. 0/1

TITLE-TERMS: INK COMPOSITION ACTIVATE ULTRAVIOLET RAY USEFUL PRINT SECURE

FUNCTION CONTAIN SPECIFIED EUROPIUM COMPLEX

DERWENT-CLASS: E12 G02 P75 T04

CPI-CODES: E05-P; G02-A04A;

EPI-CODES: T04-G02C;

CHEMICAL-CODES:

Chemical Indexing M3 *01*

Fragmentation Code

A763 A960 C710 D000 E220 G021 G221 H685 J582 M280
M311 M320 M322 M342 M344 M349 M362 M382 M391 M411
M510 M511 M520 M530 M531 M540 M630 M781 M904 M905
Q332 R023

Ring Index

03480

Specific Compounds

A1YN4K A1YN4U

Chemical Indexing M3 *02*

Fragmentation Code

A763 A960 C710 F012 F019 F431 F499 G021 G221 H685
J582 M116 M280 M311 M320 M322 M342 M344 M349 M362
M382 M391 M411 M510 M520 M522 M530 M531 M540 M630
M781 M904 M905 Q332 R023

Specfic Compounds
A81FBK A81FBU

Chemical Indexing M3 *03*

Fragmentation Code

A763 A960 C710 D012 D019 D621 D699 G021 G221 H685
J5 J582 M116 M280 M311 M322 M342 M344 M349 M362
M382 M391 M411 M510 M512 M520 M530 M531 M540 M630
M781 M904 M905 Q332 R023

Specfic Compounds
A81FDK A81FDU

Chemical Indexing M3 *04*

Fragmentation Code

A763 A960 C710 G021 G221 H103 H182 H685 J5 J582
M210 M211 M273 M280 M283 M311 M312 M321 M322 M332
M342 M344 M349 M362 M382 M383 M391 M411 M510 M520
M530 M531 M540 M620 M630 M781 M904 M905 Q332 R023

Specfic Compounds
A81FGK A81FGU

Chemical Indexing M3 *05*

Fragmentation Code

A763 A960 C710 F012 F014 F019 F431 F499 G021 G221
H685 J582 M116 M210 M211 M240 M280 M282 M311 M320
M322 M342 M344 M349 M362 M382 M391 M411 M510 M520
M522 M530 M531 M540 M630 M781 M904 M905 Q332 R023

Specfic Compounds
A81FLK A81FLU

Chemical Indexing M3 *06*

Fragmentation Code

A763 A960 C710 D011 D019 E220 G010 G019 G021 G100
G221 H685 J5 J582 M113 M119 M280 M311 M322 M342
M344 M349 M362 M382 M391 M411 M510 M511 M520 M531
M532 M540 M630 M781 M904 M905 Q332 R023

Ring Index
03480

Specfic Compounds
A81FNK A81FNU

Chemical Indexing M3 *07*

Fragmentation Code

A763 A960 C710 D013 D019 D621 D699 G021 G221 H685
J5 J582 M116 M210 M211 M240 M280 M282 M311 M320
M322 M342 M344 M349 M362 M382 M391 M411 M510 M512
M520 M530 M531 M540 M630 M781 M904 M905 Q332 R023

Specfic Compounds
A81FQK A81FQU

Chemical Indexing M3 *08*

Fragmentation Code

A763 A960 C710 F012 F019 F211 F431 F499 H685 J582
M116 M280 M311 M320 M322 M342 M344 M349 M362 M382
M391 M411 M510 M521 M522 M530 M540 M630 M781 M904
M905 Q332 R023

Specfic Compounds

A81FXK A81FXU

Chemical Indexing M3 *09*

Fragmentation Code

A763 A960 C710 D000 E220 G010 G100 H685 J5 J582
M280 M311 M322 M342 M344 M349 M362 M382 M391 M411
M510 M511 M520 M530 M531 M540 M630 M781 M904 M905
Q332 R023

Ring Index

03480

Specfic Compounds

A81G0K A81G0U

Chemical Indexing M3 *10*

Fragmentation Code

A763 A960 C710 D012 D019 D621 D699 F012 F211 H685
J582 M116 M280 M311 M320 M322 M342 M344 M349 M362
M382 M391 M411 M510 M512 M520 M521 M530 M540 M630
M781 M904 M905 Q332 R023

Specfic Compounds

A81G5K A81G5U

Chemical Indexing M3 *11*

Fragmentation Code

A763 A960 C710 F012 F211 H103 H182 H685 J5 J582
M210 M211 M273 M280 M283 M311 M312 M321 M322 M332
M342 M344 M349 M362 M382 M383 M391 M411 M510 M520
M521 M530 M540 M620 M630 M781 M904 M905 Q332 R023

Specfic Compounds

A81G8K A81G8U

Chemical Indexing M3 *12*

Fragmentation Code

A763 A960 C710 D000 D011 D012 D013 D019 D021 D022
D023 D029 D621 D699 E220 F012 F014 F015 F019 F211
F431 F499 G010 G019 G020 G021 G022 G023 G024 G029
G040 G100 G111 G112 G113 G221 G299 H100 H101 H102
H103 H141 H142 H181 H182 H541 H542 H543 H600 H601
H608 H609 H641 H642 H643 H681 H682 H683 H684 H685
H689 J582 M113 M116 M119 M121 M122 M124 M129 M143
M149 M210 M211 M212 M213 M214 M215 M216 M220 M221
M222 M223 M224 M225 M226 M231 M232 M233 M240 M262
M272 M273 M280 M281 M282 M283 M311 M312 M313 M314

M315 M316 M320 M321 M322 M331 M332 M333 M334 M340
M342 M343 M344 M349 M362 M382 M383 M391 M411 M510
M511 M512 M520 M521 M522 M530 M531 M532 M533 M540
M620 M630 M781 M904 M905 Q332 R023

Ring Index

03480

Markush Compounds

200072-34301-K 200072-34301-U

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2002-168315

Non-CPI Secondary Accession Numbers: N2002-471589